

Yoong-Kee Choe

List of Publications by Year in descending order

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Version: 2024-02-01

60
papers

2,356
citations

218592

26
h-index

206029

48
g-index

61
all docs

61
docs citations

61
times ranked

2671
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis, structure and properties of trivalent and pentavalent tricarbabismatranes. <i>Chemical Communications</i> , 2022, 58, 6614-6617.	2.2	3
2	Mechanistic investigation on ethanol to butadiene conversion reaction over metal oxide clusters. <i>International Journal of Quantum Chemistry</i> , 2021, 121, e26494.	1.0	13
3	Theoretical study of the side reactions of the catalytic conversion of ethanol to butadiene on metal oxide catalysts. <i>Catalysis Communications</i> , 2021, 149, 106239.	1.6	2
4	First-principles molecular dynamics simulation study on Ti ⁴⁺ ion in aqueous sulfuric acid. <i>AIP Advances</i> , 2021, 11, 035224.	0.6	2
5	Theoretical Study of the Mechanism for the Reaction of Trimethylaluminum with Ozone. <i>ACS Omega</i> , 2021, 6, 26282-26292.	1.6	5
6	[Pd(4-RSi-IPr)(allyl)Cl]/KCO/EtOH: A highly effective catalytic system for the Suzuki-Miyaura cross-coupling reaction. <i>Journal of Organometallic Chemistry</i> , 2021, 954-955, 122096.	0.8	5
7	N ^o -Aryl and N ^o -Alkyl Carbamates from 1 Atmosphere of CO ₂ . <i>Chemistry - A European Journal</i> , 2021, 27, 18066-18073.	1.7	12
8	Suppressing vanadium crossover using sulfonated aromatic ion exchange membranes for high performance flow batteries. <i>Materials Advances</i> , 2020, 1, 2206-2218.	2.6	22
9	Fundamental roles of ZnO and ZrO ₂ in the conversion of ethanol to 1,3-butadiene over ZnO-ZrO ₂ /SiO ₂ . <i>Catalysis Science and Technology</i> , 2020, 10, 7531-7541.	2.1	13
10	Structure dependency of the reactivity of aromatic hydrocarbons involving the formation of oxygenated polycyclic aromatic hydrocarbons (OPAHs). <i>Chemical Physics Letters</i> , 2020, 754, 137652.	1.2	4
11	Turning Harmful Deposition of Metal Impurities into Activation of Nitrogen-Doped Carbon Catalyst toward Durable Electrochemical CO ₂ Reduction. <i>ACS Energy Letters</i> , 2019, 4, 2343-2350.	8.8	23
12	The energetics of phosphoric acid interactions reveals a new acid loss mechanism. <i>Journal of Materials Chemistry A</i> , 2019, 7, 9867-9876.	5.2	83
13	Mechanistic Details on the Conversion of Si ^o -O to Si ^o -C Bonds Using Metal Hydrides: A Density Functional Theory Study. <i>European Journal of Inorganic Chemistry</i> , 2019, 2019, 1335-1342.	1.0	1
14	[Pd(4-R ₃ Si-IPr)(allyl)Cl], a Family of Silyl-Substituted Pd ^o -NHC Complexes: Catalytic Systems for the Buchwald-Hartwig Amination. <i>Organometallics</i> , 2019, 38, 375-384.	1.1	22
15	DFT Studies of Perfluorosulfonic Acid Ionomer Degradation in Fuel Cells. <i>Journal of Physical Chemistry C</i> , 2018, 122, 20135-20143.	1.5	15
16	Alkoxysilane production from silica and dimethylcarbonate catalyzed by alkali bases: A quantum chemical investigation of the reaction mechanism. <i>Inorganica Chimica Acta</i> , 2018, 482, 70-76.	1.2	13
17	Tris(pentafluorophenyl)borane-Catalyzed Reactions of Siloxanes: A Combined Experimental and Computational Study. <i>European Journal of Organic Chemistry</i> , 2017, 2017, 4922-4927.	1.2	9
18	First-principles molecular dynamics simulation study on electrolytes for use in redox flow battery. <i>AIP Conference Proceedings</i> , 2017, . .	0.3	0

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19	Effect of Organic Cations on Hydrogen Oxidation Reaction of Carbon Supported Platinum. Journal of the Electrochemical Society, 2016, 163, F1503-F1509.	1.3	29
20	Computational modeling study on polymer electrolyte membranes for fuel cell applications. AIP Conference Proceedings, 2016, , .	0.3	0
21	Olefin hydrosilylation catalyzed by cationic nickel(η^5 -allyl) complexes: a non-innocent allyl ligand-assisted mechanism. Chemical Communications, 2016, 52, 6723-6726.	2.2	32
22	Systematic Alkaline Stability Study of Polymer Backbones for Anion Exchange Membrane Applications. Macromolecules, 2016, 49, 3361-3372.	2.2	287
23	An operationally flexible fuel cell based on quaternary ammonium-biphosphate ion pairs. Nature Energy, 2016, 1, .	19.8	206
24	First-Principles Molecular Dynamics Study of a Hydrocarbon Copolymer for Use in Polymer Electrolyte Membrane Fuel Cells. Journal of Physical Chemistry C, 2016, 120, 13398-13405.	1.5	6
25	Chemical degradation mechanisms of membranes for alkaline membrane fuel cells. AIP Conference Proceedings, 2015, , .	0.3	0
26	A DFT Study on the Dissociation Property of Sulfonic Acids with Different Neighboring Pendants in Polymer Electrolyte Membranes. , 2015, , .		0
27	An adaptive finite-element method for large-scale ab initio molecular dynamics simulations. Physical Chemistry Chemical Physics, 2015, 17, 31444-31452.	1.3	18
28	Theoretical studies on the degradation of hydrocarbon copolymer ionomers used in fuel cells. Journal of Membrane Science, 2015, 487, 229-239.	4.1	32
29	Theoretical Studies of Pendant Effects on the Properties of Sulfonated Hydrocarbon Polymer Electrolyte Membranes. Journal of Physical Chemistry C, 2015, 119, 11362-11369.	1.5	7
30	Alkaline Stability of Benzyl Trimethyl Ammonium Functionalized Polyaromatics: A Computational and Experimental Study. Chemistry of Materials, 2014, 26, 5675-5682.	3.2	152
31	Ab initio studies on the proton dissociation and infrared spectra of sulfonated poly(ether ether) Tj ETQq1 1 0.784314 rgBT / Overlock	1.3	20
32	Resonance Stabilized Perfluorinated Ionomers for Alkaline Membrane Fuel Cells. Macromolecules, 2013, 46, 7826-7833.	2.2	90
33	Molecular Design Aspect of Anion Exchange Polymer Electrolytes. ECS Transactions, 2013, 58, 417-423.	0.3	0
34	Iterative diagonalization of symmetric matrices in mixed precision and its application to electronic structure calculations. Computer Physics Communications, 2012, 183, 980-985.	3.0	11
35	Synthesis, Structure, and Reactivity of Hydrido-iridium Complexes Bearing a Pincer-type PSiP Ligand. Chemistry - an Asian Journal, 2011, 6, 2512-2521.	1.7	80
36	Understanding properties of copoly(arylene ether nitrile)s high-performance polymer electrolyte membranes for fuel cells from molecular dynamics simulations. Theoretical Chemistry Accounts, 2011, 130, 555-561.	0.5	3

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37	An Ab Initio Modeling Study on a Modeled Hydrated Polymer Electrolyte Membrane, Sulfonated Polyethersulfone (SPES). <i>Journal of Physical Chemistry B</i> , 2010, 114, 2411-2421.	1.2	38
38	Proton Dynamics in a Polymer Electrolyte Membrane, Sulfonated Polyether Sulfone (SPES): A Computational Study. <i>ECS Transactions</i> , 2009, 25, 1075-1083.	0.3	2
39	Vibrational analysis of aqueous sulfuric acid: A computational study. <i>International Journal of Quantum Chemistry</i> , 2009, 109, 1984-1990.	1.0	8
40	A unique Bi–Bi bond forming reaction using organobismuth oxides and phosphorus compounds bearing a P(=O)H group. <i>Chemical Communications</i> , 2009, , 6168.	2.2	32
41	Nature of proton dynamics in a polymer electrolyte membrane, nafion: a first-principles molecular dynamics study. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 3892.	1.3	93
42	Nature of Water Transport and Electro-Osmosis in Nafion: Insights from First-Principles Molecular Dynamics Simulations under an Electric Field. <i>Journal of Physical Chemistry B</i> , 2008, 112, 11586-11594.	1.2	51
43	Multinuclear palladium compounds containing palladium centers ligated by five silicon atoms. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 7758-7763.	3.3	47
44	First-principles molecular dynamics study on aqueous sulfuric acid solutions. <i>Journal of Chemical Physics</i> , 2007, 126, 154510.	1.2	55
45	Theoretical study of the electronic spectra of oxidized and reduced states of lumiflavin and its derivative. <i>Journal of Computational Chemistry</i> , 2007, 28, 727-739.	1.5	36
46	Electrical property of a sulfuric acid–water mixture from the first-principles molecular dynamics simulation. <i>Computer Physics Communications</i> , 2007, 177, 38-39.	3.0	3
47	Effect of the axial cysteine ligand on the electronic structure and reactivity of high-valent iron(IV) oxo-porphyrins (Compound I): A theoretical study. <i>Journal of Computational Chemistry</i> , 2005, 26, 1600-1611.	1.5	15
48	Isolation of a Se-Nitrososelenol: A New Class of Reactive Nitrogen Species Relevant to Protein Se-Nitrosation. <i>Journal of the American Chemical Society</i> , 2004, 126, 13238-13239.	6.6	46
49	Calculation of packing structure of methanol solid using ab initio lattice energy at the MP2 level. <i>Chemical Physics Letters</i> , 2003, 369, 597-604.	1.2	15
50	Effect of Substituents on the Thermal Decomposition of Diazirines: A Experimental and Computational Studies. <i>Journal of Organic Chemistry</i> , 2003, 68, 7471-7478.	1.7	32
51	Theoretical identification of C ₂₀ carbon clusters: Prevalence of the monocyclic isomer and existence of the smallest fullerene and bowl isomer. <i>Physical Review B</i> , 2003, 67, .	1.1	22
52	A comparison of the photochemical reactivity of N@C ₆₀ and C ₆₀ : photolysis with disilirane Electronic supplementary information (ESI) available: experimental results. See http://www.rsc.org/suppdata/cc/b3/b309470g/ . <i>Chemical Communications</i> , 2003, , 2940.	2.2	30
53	A CASCI-MRMP method based on Kohn–Sham orbitals. <i>Molecular Physics</i> , 2002, 100, 729-745.	0.8	27
54	Intruder state avoidance multireference Møller-Plesset perturbation theory. <i>Journal of Computational Chemistry</i> , 2002, 23, 957-965.	1.5	186

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55	Multireference Møller-Plesset method with a complete active space configuration interaction reference function. <i>Journal of Chemical Physics</i> , 2001, 115, 621-629.	1.2	59
56	Identifying and removing intruder states in multireference Møller-Plesset perturbation theory. <i>Journal of Chemical Physics</i> , 2001, 114, 3913-3918.	1.2	61
57	On the performance of diagrammatic complete active space perturbation theory. <i>Journal of Chemical Physics</i> , 2000, 113, 7773-7778.	1.2	6
58	Theoretical study of the electronic ground state of iron(II) porphine. II. <i>Journal of Chemical Physics</i> , 1999, 111, 3837-3845.	1.2	76
59	Theoretical Study of the Q and B Bands of Free-Base, Magnesium, and Zinc Porphyrins, and Their Derivatives. <i>Journal of Physical Chemistry A</i> , 1999, 103, 1894-1904.	1.1	157
60	Theoretical study of the electronic ground state of iron(II) porphine. <i>Chemical Physics Letters</i> , 1998, 295, 380-388.	1.2	39